

# EXHIBIT A

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## DIGITAL TELEVISION DESIGN

Powering the free-to-air revolution

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Map

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#### ▶ SET TOP BOXES



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## PRODUCT INFORMATION

EchoStar has been part of the development of digital television since the beginning, and in Europe we've sold millions of receivers for both Free to Air markets and to pay television operators. In addition, our middleware is in over 3 million digital terrestrial receivers.

We have extensive experience in tailoring a design to the particular hardware and software needs of any market in the world. Our efficient hardware designs have been created to minimise the overall costs, no matter what business you are in. We have thoroughly tested software middleware stacks for everyone, from the high end user to the entry level customer.

In addition, we've learned a lot along the way about running uplink centres, call centres, and service centres, along with securing bandwidth streams, writing interactive applications and keeping 12 million subscribers happy. You can circumvent the long learning processes required to gain this knowledge by having us consult with you on your projects.



## COMPANY INFORMATION

### EchoStar Europe

The summer of 2006 marked the start of a new era for EchoStar in Europe. EchoStar's three European offices consisting of 270 employees in the Netherlands, Spain and the UK joined together into one organization by adopting the same trade name - EchoStar Europe.

By combining EchoStar's engineering expertise in Europe and operating under the same trade name, EchoStar Europe is well positioned to create and develop DISH Network technology and extend its use around the world.

EchoStar International Corporation (EIC) started in a rented office in Rotterdam, the Netherlands, in 1988. The following year, it moved to its present location in Almelo, the Netherlands, and became a key center for distributing TV satellite receivers throughout Europe, Africa and the Middle East. As technology developed, EIC's engineering department grew and gained invaluable experience in satellite television design and development.

In 1994, the Spanish office was established in Madrid in order to be closer to the Iberian and North African market that was booming in those years. Following sale of more than 600,000 receivers to the local Spanish TV platform Via Digital in 1997-98, an after-sales service department was established in Madrid.

In 1999, EchoStar Technologies Corporation decided to expand its hardware and software development groups, and looked for a team of engineers that would resemble the spirit of EchoStar in terms of continuously working to create low cost, innovative products and designs. Eldon Technology Limited, a very reputable electronics design house located in West Yorkshire, UK that had been at the forefront of television development since 1988, was an ideal fit. EchoStar acquired Eldon in 1999, and since then the office has become an essential field engineering office of the EchoStar family.

# EXHIBIT B

Support for PBS.org provided by:

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Monday, January 14, 2008

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## FREQUENTLY ASKED QUESTIONS ABOUT PBS ON SATELLITE

### Q. How can I receive PBS on my home satellite dish?

A. C-band dish owners can access a clear analog feed of the PBS Satellite Service.

**PBS is transitioning the clear analog C-Band PBS National Satellite Service from Intelsat Americas 6 (IA-6) to SES Americom AMC-4. Starting April 1, 2006, the C-band feed will be available on AMC-4 (101 degrees West Longitude) Transponder 16-C (Horizontal Polarity). After May 31, 2006, the C-band feed will no longer be available on IA-6.**

DirecTV, Pegasus, and Dish Network (EchoStar) viewers also receive PBS, either as part of a local channels package, or through the PBS National Feed for those who are as yet unable to receive local stations. Contact your service provider for more information about how to receive PBS in your viewing area.

### Q. How can I support PBS?

A. Your support of your local PBS stations makes the PBS national satellite service and all the great PBS programming possible. Even if you do not receive local channels on your home satellite, PBS encourages you to support your local station. Please visit [Support PBS](#) for more information and instructions on how to give to your local station.

### Q. Where can I get a program guide?

A. All program information is available on-line.

[C-band Schedule](#)

[DirecTV/DishNetwork/Pegasus Schedule](#)

### Q. Why has my PBS schedule changed?

A. As DirecTV/Pegasus and DishNetwork launch more local markets, viewers are able to receive their local PBS station over satellite. These local stations differ from the generic national feed in many ways. First, prime time programs like NOVA and Masterpiece Theater are no longer delayed by 24 hours. Second, each local station designs a program schedule tailored to their community, featuring such additions as local productions, public affairs, and select non-commercial programs. We hope that you will support this transition because public television is, and will remain, a locally-based broadcasting service.

[More information on DirecTV's Local Markets](#)

[More information on DISH Network's Local Markets](#)

### Q. I live full time in a recreational vehicle. How can I receive PBS?

A. Please follow the links below to information on receiving the national feed in your recreational vehicle.

[DirecTV](#)

## **DISH Network**

### **Q. I have DirecTV or Dish Network. Why is some of our programming delayed 24 hours?**

A. If you do not receive local channels, the PBS National Satellite Service on DirecTV and DISH Network delays most primetime programming 24 hours to encourage viewers to watch and support their local PBS station. Some timely PBS programming, including THE NEWSHOUR WITH JIM LEHRER, WASHINGTON WEEK, and WALL \$TREET WEEK and others air on their same day and time. Check the [online program guide](#) for the complete schedule.

### **Q. I live outside North America. Can I watch PBS?**

A. Unfortunately, PBS programming is not currently available outside of North America. The footprint of our domestic satellite does not reach outside of North America and cable providers are not licensed to carry the PBS signal outside of the continent.

### **Q. I live in Canada and have a small satellite dish. What station am I watching?**

A. Canadian DBS providers do carry local public television stations from the U.S. For specific information about these channels being carried, please check with your DBS provider to find your station and from where it originates. You can then find information about that station and their program schedule using the [PBS Station Finder](#). Just choose the station state instead of using the zip code function.

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NASA TV

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Digital NASA TV

09.06.07

NASA TV's Public, Education and Media channels are available on an MPEG-2 digital C-band signal via satellite on AMC 6, Transponder 17C in continental North America. In Alaska and Hawaii, they're available on AMC 7, Transponder 18C. Analog NASA TV is no longer available.

- + For Satellite Dish Owners
- + For Educators
- + For Media
- + For Cable or Satellite Service Providers

What is Digital NASA TV?

Digital NASA TV has four digital channels:

1. NASA Public ("Free to Air"), featuring documentaries, archival programming, and coverage of NASA missions and events;
2. NASA Education ("Free to Air/Addressable"), dedicated to providing educational programming to schools, educational institutions and museums;
3. NASA Media ("Addressable"), for broadcast news organizations; and
4. NASA Mission Operations (Internal Only)

Note: Digital NASA TV channels may not always have programming on every channel simultaneously.

### **Why is NASA TV digital?**

Digital NASA TV system provides higher quality images and better use of satellite bandwidth, meaning multiple channels from multiple NASA program sources at the same time.

### **Can I watch NASA TV on the Web?**

Yes, NASA TV's Public, Education and Media channels are streamed here on the Web. All you need is access to a computer.

### **Can I get digital NASA TV from my local cable or satellite service provider?**

The NASA TV Public and Educational channels are "free-to-air," meaning your cable or satellite service provider can carry them at no cost. Contact your local cable or satellite service provider about carrying NASA TV.

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### **I have my own C-band-sized satellite dish. What else do I need to get the digital NASA TV Public Channel?**

If your C-Band-sized satellite dish is capable of receiving digital television signals, you still need a Digital Video Broadcast (DVB)-compliant MPEG-2 Integrated Receiver Decoder, or IRD, to get Digital NASA's Public "Free to Air" Channel.

An IRD that receives "Free to Air" programming like the Digital NASA TV Public Channel can be purchased from many sources, including "off-the-shelf" at your local electronics store.

Digital NASA TV is on satellite AMC 6, Transponder 17. In Alaska and Hawaii, digital NASA TV is available on AMC7, Transponder 18C.

Digital NASA TV is on the same satellite (AMC 6) as the analog NASA TV was, but on a different transponder (17). In Alaska and Hawaii, digital NASA TV is available on AMC7, Transponder 18C.

### **NASA TV provides only C-band digital service (no Ku-band).**

Here is additional satellite information you may find helpful:

#### **Digital Satellite C-Band Downlink for continental North America:**

Uplink provider = Americom

Satellite = AMC 6

Transponder = 17C

72 Degrees West

Downlink Frequency: 4040 Mhz  
Polarity: Vertical  
FEC = 3/4

Data Rate = 36.860 MHz  
Symbol = 26.665 Ms  
Transmission = DVB

**"Public" Programming:**

Program = 101 (HQ1), Video PID = 0111 decimal = 0x006F, Audio PID = 0114 decimal = 0x0072, AC-3 PID = 0115 decimal = 0x0073

**"Education" Programming:**

Program = 102 (HQ2), Video PID = 0121 decimal = 0x0079, Audio PID = 0124 decimal = 0x007C, AC-3 PID = 0125 decimal = 0x007D

**"Media" Programming:**

Program = 103 (HQ3), Video PID = 1031 decimal = 0x0407, Audio PID = 1034 decimal = 0x040A, AC-3 PID = 1035 decimal = 0x040B

**"SOMD" Programming:**

Program = 104 (HQ4), Video PID = 1041 decimal = 0x0411, Audio PID = 1044 decimal = 0x0414, AC-3 PID = 1045 decimal = 0x0415

**Digital C-Band Satellite Downlink for Alaska and Hawaii:**

Uplink provider = Americom

Satellite = AMC 7

Transponder = 18C

137 Degrees West

Downlink Frequency: 4060 Mhz

Polarity: Vertical

FEC = 3/4

Data Rate = 36.860 MHz

Symbol = 26.665 Ms

Transmission = DVB

**"Public" Programming:**

Program = 101 (HQ1), Video PID = 0111 decimal = 0x006F, Audio PID = 0114 decimal = 0x0072, AC-3 PID = 0115 decimal = 0x0073

**"Education" Programming:**

Program = 102 (HQ2), Video PID = 0121 decimal = 0x0079, Audio PID = 0124 decimal = 0x007C, AC-3 PID = 0125 decimal = 0x007D

**"Media" Programming:**

Program = 103 (HQ3), Video PID = 1031 decimal = 0x0407, Audio PID = 1034 decimal = 0x040A, AC-3 PID = 1035 decimal = 0x040B

**"SOMD" Programming:**

Program = 104 (HQ4), Video PID = 1041 decimal = 0x0414, Audio PID = 1044 decimal = 0x0414, AC-3 PID = 1045 decimal = 0x0415

**NOTES:**

1. SOMD = Space Operations Mission Directorate
2. PCR (program clock reference) information is included within the Video PID by the Harmonic Encoders used by NASA TV
3. PMT (Transport Stream Program Map Table) settings are as follows:

Program = 101 (HQ1) = 0110 decimal = 0x006E  
Program = 102 (HQ2) = 0120 decimal = 0x0078  
Program = 103 (HQ3) = 1030 decimal = 0x0406  
Program = 104 (HQ4) = 1040 decimal = 0x0410

A 'C Band' size satellite dish is needed to receive multi-channel NASA TV. It may also be necessary to modify some of your dish hardware, such as LNBs, to optimize performance. LNB's that are "phase locked" are recommended, though many models of "non-phase locked" LNB's should work. Check with your particular manufacturer for recommendations. NASA TV will not be making vendor specific recommendations and is not responsible for providing any downlink infrastructure.

**LNB Recommended Minimum Specifications:**

Frequency Stability: +/- 1.0 MHz

SSB Phase Noise:

Offset dBc/Hz

Offset dBc/Hz

1 kHz -60

10 kHz -75

100 kHz -85

Voltage: 15 to 24 VDC

Current: 100 to 250 ma.

**NASA TV provides only C-band digital service (no Ku-band).**

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I'm an educator who works for a school, educational institution or museum. What equipment will my organization need to get the digital NASA TV Education Channel?

If you have a C-Band-size satellite dish capable of receiving digital television signals, you still need a Digital Video Broadcast (DVB)-compliant MPEG-2 Integrated Receiver Decoder, or IRD, to get the digital NASA TV Education Channel. Your IRD will provide access to the digital NASA TV Public Channel, as well, which also offers education materials.

An IRD that receives "Free to Air" programming like the new digital NASA TV Education Channel can be purchased from many sources, including "off-the-shelf" at your local electronics store.

Occasionally, the new digital NASA TV Education Channel may provide its programming in an "addressable" format. If your institution were to purchase an "addressable" IRD with "store-and-forward" capabilities, the digital NASA TV Education Channel could, from time to time, "address," or send specific programming to your IRD's hard drive for playback and use at your convenience. An "addressable" IRD has great potential for educational activities as NASA could offer programming designed specifically for a targeted educational audience. For technical specifications and pricing, visit <http://www.nasadigitaltv.com>.

Digital NASA TV is on satellite AMC 6, Transponder 17. In Alaska and Hawaii, digital NASA TV is available on AMC7, Transponder 18C.

**NASA TV provides only C-band digital service (no Ku-band).**

Here is additional satellite information you may find helpful:

**Digital Satellite C-Band Downlink for continental North America:**

Uplink provider = Americom

Satellite = AMC 6

Transponder = 17C

72 Degrees West

Downlink Frequency: 4040 Mhz

Polarity: Vertical

FEC = 3/4

Data Rate r= 36.860 MHz

Symbol = 26.665 Ms

Transmission = DVB

**"Public" Programming:**

Program = 101 (HQ1), Video PID = 0111 decimal = 0x006F, Audio PID = 0114 decimal = 0x0072, AC-3 PID = 0115 decimal = 0x0073

**"Education" Programming:**

Program = 102 (HQ2), Video PID = 0121 decimal = 0x0079, Audio PID = 0124 decimal = 0x007C, AC-3 PID = 0125 decimal = 0x007D

**"Media" Programming:**

Program = 103 (HQ3), Video PID = 1031 decimal = 0x0407, Audio PID = 1034 decimal = 0x040A, AC-3 PID = 1035 decimal =

0x040B

**"SOMD" Programming:**

Program = 104 (HQ4), Video PID = 1041 decimal = 0x0411, Audio PID = 1044 decimal = 0x0414, AC-3 PID = 1045 decimal = 0x0415

**Digital C-Band Satellite Downlink for Alaska and Hawaii:**

Uplink provider = Americom

Satellite = AMC 7

Transponder = 18C

137 Degrees West

Downlink Frequency: 4060 Mhz

Polarity: Vertical

FEC = 3/4

Data Rate = 36.860 MHz

Symbol = 26.665 Ms

Transmission = DVB

**"Public" Programming:**

Program = 101 (HQ1), Video PID = 0111 decimal = 0x006F, Audio PID = 0114 decimal = 0x0072, AC-3 PID = 0115 decimal = 0x0073

**"Education" Programming:**

Program = 102 (HQ2), Video PID = 0121 decimal = 0x0079, Audio PID = 0124 decimal = 0x007C, AC-3 PID = 0125 decimal = 0x007D

**Programming:**

Program = 103 (HQ3), Video PID = 1031 decimal = 0x0407, Audio PID = 1034 decimal = 0x040A, AC-3 PID = 1035 decimal = 0x040B

**"SOMD" Programming:**

Program = 104 (HQ4), Video PID = 1041 decimal = 0x0411, Audio PID = 1044 decimal = 0x0414, AC-3 PID = 1045 decimal = 0x0415

**NOTES:**

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3. PMT (Transport Stream Program Map Table) settings are as follows:

Program = 101 (HQ1) = 0110 decimal = 0x006E

Program = 102 (HQ2) = 0120 decimal = 0x0078

Program = 103 (HQ3) = 1030 decimal = 0x0406

Program = 104 (HQ4) = 1040 decimal = 0x0410

A 'C Band' size satellite dish is needed to receive multi-channel NASA TV. It may also be necessary to modify some of your dish hardware, such as LNBs, to optimize performance. LNB's that are "phase locked" are recommended, though many models of "non-phase locked" LNB's should work. Check with your particular manufacturer for recommendations. NASA TV will not be making vendor specific recommendations and is not responsible for providing any downlink infrastructure.

**LNB Recommended Minimum Specifications:**

Frequency Stability: +/- 1.0 MHz

SSB Phase Noise:

Offset dBc/Hz

Offset dBc/Hz

1 kHz -60

10 kHz -75

100 kHz -85

Voltage: 15 to 24 VDC

Current: 100 to 250 ma.

**NASA TV provides only C-band digital service (no Ku-band).**

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**I'm a member of the media and want to participate in live shot interviews, receive Video File news feeds, press conferences and other media updates. What does my news organization need?**

Media content, such as live shot interviews and Video File feeds, are offered on its own NASA TV Media Channel with an "addressable" IRD capability. With new "store-and-forward" capable IRDs, NASA content can be "pushed" to your IRD's hard drive for playback and use at your convenience. No need to monitor NASA TV at a specific time each day with your tapes rolling. For technical specifications and pricing, visit <http://www.nasadigitaltv.com>.

Digital NASA TV is on satellite AMC 6, Transponder 17. In Alaska and Hawaii, digital NASA TV is available on AMC7, Transponder 18C.

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Here is additional satellite information you may find helpful:

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Uplink provider = Americom

Satellite = AMC 6  
Transponder = 17C  
72 Degrees West  
Downlink Frequency: 4040 Mhz  
Polarity: Vertical  
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Data Rate = 36.860 MHz  
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Transmission = DVB

**"Public" Programming:**

Program = 101 (HQ1), Video PID = 0111 decimal = 0x006F, Audio PID = 0114 decimal = 0x0072, AC-3 PID = 0115 decimal = 0x0073

**"Education" Programming:**

Program = 102 (HQ2), Video PID = 0121 decimal = 0x0079, Audio PID = 0124 decimal = 0x007C, AC-3 PID = 0125 decimal = 0x007D

**"Media" Programming:**

Program = 103 (HQ3), Video PID = 0131 decimal = 0x0407, Audio PID = 1034 decimal = 0x040A, AC-3 PID = 1035 decimal = 0x040B

**"SOMD" Programming:**

Program = 104 (HQ4), Video PID = 0141 decimal = 0x0411, Audio PID = 1044 decimal = 0x0414, AC-3 PID = 1045 decimal = 0x0415

**Digital C-Band Satellite Downlink for Alaska and Hawaii:**

Uplink provider = Americom

Satellite = AMC 7  
Transponder = 18C  
137 Degrees West

Downlink Frequency: 4060 Mhz  
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FEC = 3/4

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Symbol = 26.665 Ms  
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**"Public" Programming:**

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**"Education" Programming:**

Program = 102 (HQ2), Video PID = 0121 decimal = 0x0079, Audio PID = 0124 decimal = 0x007C, AC-3 PID = 0125 decimal = 0x007D



**"Media" Programming:**

Program = 103 (HQ3), Video PID = 1031 decimal = 0x0407, Audio PID = 1034 decimal = 0x040A, AC-3 PID = 1035 decimal = 0x040B

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Program = 104 (HQ4), Video PID = 1041 decimal = 0x0411, Audio PID = 1044 decimal = 0x0414, AC-3 PID = 1045 decimal = 0x0415

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Offset dBc/Hz

1 kHz -60

10 kHz -75

100 kHz -85

Voltage: 15 to 24 VDC

Current: 100 to 250 ma.

**NASA TV provides only C-band digital service (no Ku-band).**

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I'm a local cable or satellite service provider. What do I need to carry the digital NASA Public Channel?

Assuming you already have the necessary hardware (C-Band-size receiver and IRD) here's satellite information you and/or your technical staff should find helpful:

Digital NASA TV is on satellite AMC 6, Transponder 17. In Alaska and Hawaii, digital NASA TV is available on AMC7, Transponder 18C.

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100 kHz -85

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Current: 100 to 250 ma.

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#### GLOSSARY OF TERMS

"Addressable" – A type of IRD (Integrated Receiver Decoder) that can not only receive "free to air" digital TV signals but can also receive and store specially encrypted programming for rebroadcast.

DVB – Digital video broadcast.

FEC – Forward Error Correction

"Free to Air" – A TV channel that local cable and satellite service providers are "free to air" at no cost. Your basic, commercial "off-the-shelf" IRD can tune a "free to air" digital TV channel, provided you have a C-Band-size satellite receiving dish.

IRD - Integrated Receiver Decoder, a piece of equipment used to tune a digital TV signal.

LNB – Low Noise Block/Converter.

NTSC – National Television System Committee. The group responsible for setting the television and video standard used in the United States. NTSC also refers to the standard itself. (In Europe and elsewhere, PAL and SECAM are the dominant standards.)

PID – Program Identifier

SOMD – Space Operations Mission Directorate

TBD – To Be Determined.

NASA will update this Web page as new information becomes available.

Questions? Concerns? E-mail [public-inquiries@hq.nasa.gov](mailto:public-inquiries@hq.nasa.gov).

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Page Last Updated: November 28, 2007  
Page Editor: Brian Dunbar  
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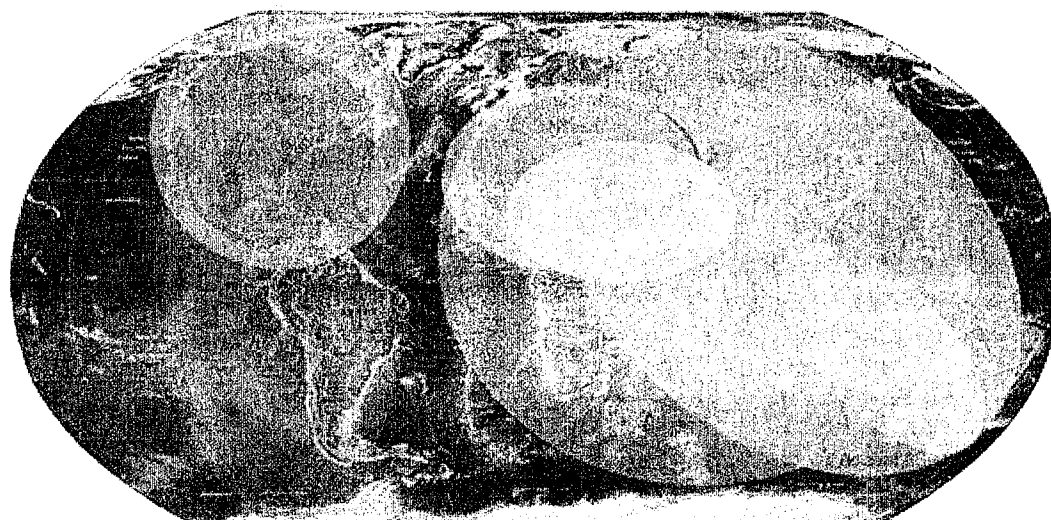
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13:14 MECCA TIME, 10:14 GMT



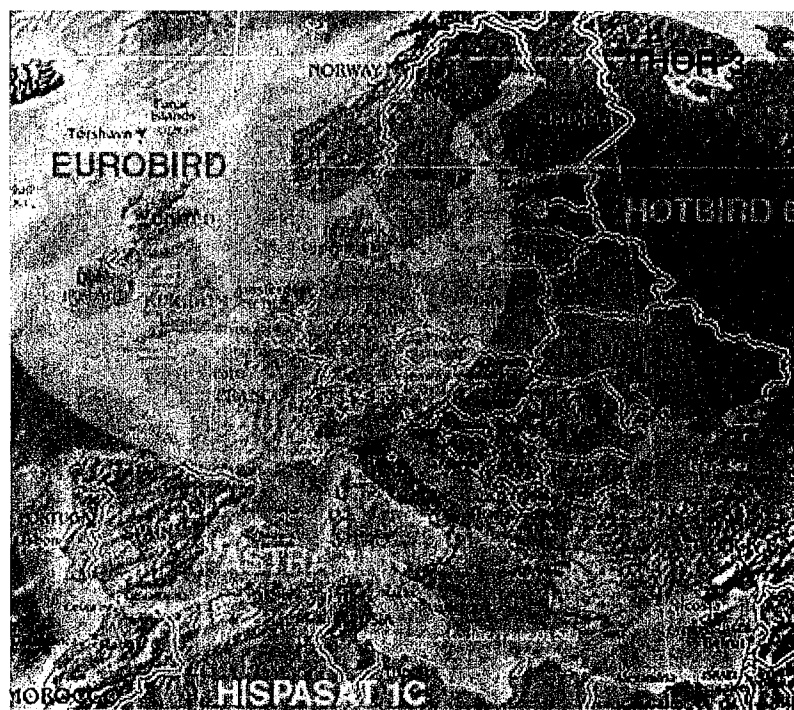
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## ABOUT US

### How to watch Al Jazeera English



World Satellite Map excluding Europe



### Europe Satellite Map

#### European coverage:

Satellite	Orbital	Transponder	Frequency	FEC	Symbol Rate
Astra 1KR	19.2 E	20	11508 MHz V	5/6	22000
Eurobird	28.5 E	D12S	11680 MHz V	2/3	27500
Hotbird 6	13 E	126	11034 MHz V	3/4	27500
Hispasat 1C	30 W	60	12092 MHz V	3/4	27500
Thor 3	0.8 W	36	12398 MHz H	7/8	28000

#### Rest of the World:

Satellite	Orbital	Transponder	Frequency	FEC	Symbol Rate
Asiasat 3S	105.5 E	4H	3760 MHz H	7/8	26000
Badr 4	26.0 E	17	12034 MHz H	3/4	27500
Badr C	25.8 E	15	3996 MHz V	**	**
IA 5	97 W	16	11999 MHz H	2/3	20000
Galaxy 23	121 W	10	3900 MHz V	3/4	27684
Nilesat 101	7 W	16	12015 MHz V	3/4	27500
Optus B3	152 E	11U	12452 MHz H	3/4	22500
Optus C1*	156 E	2	12367 MHz V	3/4	27800
Intelsat 9	58W	7C	3840 MHz H	7/8	27690
Intelsat 10	68.5 E	8C	4064 MHz H	7/8	19850
Turksat 2A	42 E	22	12139 MHz H	3/4	2222

\* Optus C1 set-up also requires PID information: for AJI the Video is 1121, the Audio is 1122.

\*\* No FEC or Symbol Rate for Badr C as this is an analogue signal.

- Galaxy 23 (G-23) is the new name for IA-13 (Telstar 13).

- Intelsat 9 (IS-9) is the new name for PAS-9.

- Intelsat 10 (IS-10) is the new name for PAS-10.

#### Al Jazeera can also be seen on these platforms:

<b>Afghanistan</b>	Tolo TV
<b>Australia</b>	TPG (Broadband) Transact (Canberra) UBI TV - Channel 2
<b>Bangladesh</b>	Air Link Cable TV Network (includes many small operators)
<b>Belgium</b>	TV Vlaanderen (Satellite) - Channel 54 Telenet Cable
<b>Bosnia &amp; Herzegovina</b>	Dzemo H & S Kablovska Televizija KTV EGE
<b>Bulgaria</b>	SKAT ITV Partner (Satellite)
<b>Croatia</b>	Vodatel d.o.o.
<b>Cyprus</b>	Primetel
<b>Czech Republic</b>	UPC Direct



<b>Denmark</b>	Canal Digital Nordic - Channel 57 Tele Danmark (Cable)
<b>Egypt</b>	Mobinil
<b>Estonia</b>	AS STV City TV Elion Ettevotted AS Teleset AS
<b>Fiji</b>	TV2 (Terrestrial)
<b>Finland</b>	Canal Digital Nordic - Channel 57 TTV/Elisa Co-operation Pool [includes: TTV OY, Elisa Oyi, Hameen Puhelin Oy, Forssan Seudun Puhelin Oy and Etela-Satakunnan Puhelin Oy] Welho - Helsinki TV (Cable)
<b>France</b>	Canal Satellite - Channel 331 Free SAS (mainly Paris) Neuf/Cegetel Noos/Numericable - Channel 64 T-Online France Tele 2 France SAS TPS - Channel 330 TV Alice
<b>Germany</b>	DNMG HanseNet Telekommunikation GmbH (IPTV) Kabel BW Kabel Deutschland Kabel Kiosk (Eutelsat) KDG (including Premiere) Martens GmbH Netcologne (Broadband) Premiere (FTA Digital Feeds) Telecolumbus Unity (Ish Cable, Iesy Cable) Willhelm.tel
<b>Ghana</b>	Metro TV
<b>Greece</b>	Nova Teledome DSL Vivodi
<b>Honduras</b>	Cable Sula Group
<b>Hong Kong</b>	HK Broadband (IPTV)
<b>Hungary</b>	Actel (IPTV) Digit (IPTV) SAI UPC Hungary
<b>Iceland</b>	Icelandic Television Company - Skjarinn
<b>Indonesia</b>	Indovision Joyja MediaNet Kabelvision Safindo Cable XL
<b>Ireland</b>	3 Play Plus NTL Ireland/UPC Sky Digital (Satellite) - Channel 514
<b>Israel</b>	YES - Channel 108 Pelephone, Cellcom & Orange
<b>Italy</b>	Sky Italia (Satellite) - Channel 522



<b>Japan</b>	Digisat (IPTV) Gotcha
<b>Jordan</b>	Fastlink Jump TV Mobilecom Umniah
<b>Kenya</b>	Nation TV (Terrestrial) Oxygen Kenya (DTT) STV Kenya (Terrestrial)
<b>Kuwait</b>	United Network Company
<b>Latvia</b>	Baltkom IZZI TV
<b>Lebanon</b>	Cablevision Econet Cable
<b>Lithuania</b>	Balticom Rygveda (Cable)
<b>Macau</b>	Macau Cable
<b>Malaysia</b>	Astro
<b>Maldives</b>	B-Net Media Net TV Maldives (Terrestrial)
<b>Mauritius</b>	London Satellite Systems
<b>Malta</b>	Multiplus
<b>Middle East</b>	Arabsat (Satellite) ART Nilesat (Satellite) Orbit (Satellite) Showtime
<b>Morocco</b>	Telecom
<b>The Netherlands</b>	CAI Westland (Cable) Canal Digitaal - Channel 64 Essent (North Holland) Xtra Televisie (South Holland)
<b>Netherlands Antilles</b>	Curacao Cable TV
<b>New Zealand</b>	Mainland Broadcasting (Terrestrial) ORCUS Triangle Television
<b>Norway</b>	Canal Digital Nordic - Channel 57 Canal Digital Norway (Cable) Comvie A/S Consoll IPTV Get (formerly UPC Norway) iJVISJON NextGenTel
<b>Philippines</b>	Destiny Cable
<b>Poland</b>	Cyfra Plus Cyfrowy Polsat - Channel 95 INEA Cable TK Poznan Toya (Lodz) Vectra
<b>Portugal</b>	Novis TV Cabo (Cable)

<b>Qatar</b>	Qatar Cable
<b>Romania</b>	DTH Group iNES Group
<b>Slovakia</b>	Satro UPC Direct
<b>Slovenia</b>	T-2 d.o.o.
<b>South Africa</b>	Multichoice (Satellite) Vodacom
<b>Spain</b>	Cableuropa & Auna Telecommunications Digital + (Satellite) France Telecom Espana SA Jazz Telecom Orange TV Wanadoo ya.com (IPTV) ZTV-Marina Television
<b>Sri Lanka</b>	Asset Media (Dialog Telecom)
<b>Sweden</b>	Boderlight SE Com Hem/UPC Sweden Canal Digital Nordic - Channel 57 Tele2
<b>Switzerland</b>	Cablecom (Cable) NAXOO
<b>Taiwan</b>	Yes TV (IPTV)
<b>Tanzania</b>	ITV (Terrestrial)
<b>Thailand</b>	Buddy TV Thailand Cable Television Association
<b>Turkey</b>	Digiturk DTH Eutelsat W3A FTA Turksat
<b>United Arab Emirates</b>	Aria Production Inc DU Etisalat Evision
<b>United Kingdom</b>	Sky Digital - Channel 514
<b>USA</b>	GlobeCast World TV Buckeye Cable, Ohio Burlington Cable, Vermont Washington Cable (Washington, DC) Fision (IPTV) JumpTV (Broadband) VDC (Broadband)
<b>Uganda</b>	Nation TV



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A Saudi paper criticizes Pres. Bush for his wrong Iran policies.

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## About Us

**Press TV takes revolutionary steps as the first Iranian international news network, broadcasting in English on a round-the-clock basis.**

**Our global Tehran-based headquarters is staffed with outstanding Iranian and foreign media professionals.**

**Press TV is extensively networked with bureaus located in the world's most strategic cities.**

## Aims

**Press TV aims to offer expansive news coverage, specifically delving into Middle Eastern current affairs.**

**Press TV delivers unbiased reporting of controversial global news, as well as broadcasting cutting-edge documentaries and programs of political, social, and economic importance.**

**Press TV aims to adduce in-depth and complete analyses of current affairs, portraying viewpoints, which are often ignored by current mainstream media outlets.**

## Vision

**Heeding the often neglected voices and perspectives of a great portion of the world;**

**Embracing and building bridges of cultural understanding;**

**Encouraging human beings of different nationalities, races and creeds to identify with one another;**

**Bringing to light untold and overlooked stories of individuals who have experienced the vitality and versatility of political and cultural divides firsthand.**

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## Frequencies

### ArabSat 2B (30.5E)

12644  
3000  
3/4  
H

### Badr C (26.2E)

3880  
27500  
3/4  
R(H)

### Badr 4 (26E)

12054  
27500  
3/4  
V

### Galaxy 25 (97W) 12053

22000  
3/4  
V

### Optus D2 (152E) 12706

22500  
3/4  
V

### AsiaSat 2 (100.5E)

3660  
27500  
3/4  
V

### Hot Bird 8 (13E)

12437  
27500  
3/4  
H

### AsiaSat 3S (105.5E)

12352  
30000  
3/4  
V

### HispaSat 1C (30W)

12172  
27500  
3/4  
H

### Intelsat902(62E)

11555  
27500  
3/4  
V

### IntelSat 10 (pas10) (68.5E)

12682  
26657  
1/2  
H

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## CCTV International Overview

CCTV International (CCTV-9) is the English-language 24-hour news channel of China Central Television, China's largest national TV network. Launched on September 25, 2000, CCTV International is dedicated to reporting news and information to its global audience, with a special focus on China. With a team of experienced and committed journalists, CCTV International is China's contribution to greater diversity and more perspective in the global information flow.

With its new lineup starting May 3rd, 2004, CCTV International increased coverage of world events, in addition to its focus on China. CCTV International emphasizes a Chinese perspective while striving to give a more balanced picture of the world.

CCTV International covers the globe via six satellites. Its programs can now be seen by 45 million subscribers outside China. 24 hours a day, seven days a week, CCTV International provides viewers with a host of news and feature programs.

## Feedback

Division	
Select the CCTV division you wish to contact: World Wide Watch	
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(Note: All fields are required)


### Contact Info

If you have web specific feedback or inquiries, please contact CCTV International.

**CCTV International**  
11B Fuxing Road  
Media Center  
Beijing, China 100038  
Email: cctv-9@cctv.com

Please direct show specific inquiries (ie. Culture Express, Biz China, etc.) to program divisions by selecting the appropriate program name in the feedback drop down menu.

### Get the Channel

Adjustments of satellite parameter on CCTV-International programs 

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How to receive CCTV-International programs?

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## How to receive CCTV-9 programs

**Source:** CCTV.com

**12-31-2005 16:37**

**Notice 1: Satellite Transfer on CCTV-4 (Asian)/9/E&F (August 1st 2007)**

**Notice 2: Adjustments of Satellite Coverage and Band Width on CCTV-4, CCTV-9 and CCTV-E&F (August 15th 2006)**

### CCTV-9 SATELLITE SPECIFICATION:

Satellite	PAS-8	PAS-9	PAS-10	Asiasat-2	Asiasat-3S
Beam & Band	Asia Pacific Beam (C-band)	American Beam (C-band)	Europe Africa Middle East Asia Beam (C-band)	East Asia Beam (Ku-band)	Asia Beam (C-band)
Transponder	6C	10C	9C	K9	13H
Orbit of Satellite	166°EL	58°WL	68.5°EL	100.5°EL	105.5°EL
Uplink Frequency	6054	6105	6014.5	14252	6354
Uplink Polarization	V	V	H	V	V
Downlink Frequency	3829	3880	4089.5	12452	4129
Downlink Polarization	H	H	H	H	H
Symbol Rate (Ms/s)	13.24	27.69	13.24	13.24	13.24
FEC	3/4	7/8	3/4	3/4	3/4

If you don't like to install a satellite dish, CCTV-9 is receivable through the cable TV networks of DIRECTV and Time Warner Cable in the USA, go to their websites for detailed information:

<http://www.directv.com/DTVAPP/packages/cctv9.jsp>

<http://www.timewarnercable.com/>

Houston area:

<http://www.twchouston.com/cable/lineup.html>

New York City:

<http://www2.twcnyc.com/index2.ftcs.dtv.cfm?c=dtv%2Fblack-dtv%2Fchannel.black.dtv&batchchannel=121>

The British Sky Broadcasting also carries CCTV-9. Useful website:

<http://www.sky.com/skycom/article/0,,90010-1078333,00.html?CMP=IL20915>

For European viewers, you can either subscribe to B-SKY-B cable service or buy satellite antenna or mobile TV receiver, please refer to the following website:

<http://www.satalogue.com/section8/page9.htm>

<http://www.cctv.com/english/20051231/101597.shtml>

Editor: Wang Ping



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Channel 573

Arabic Sweepstakes

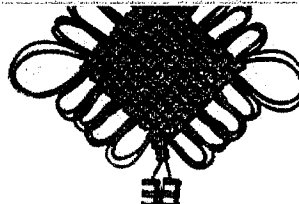
Japanese Sweepstakes

CCA Sweepstakes

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BEIJING TV (BTU)

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CCTV-9

CCTV-E

CCTV-ENTERTAINMENT

CCTV-OPERA

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